

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/484,537#25
DATE: 10/01/98
TIME: 17:41:15

INPUT SET: S28940.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

ENTERED

SEQUENCE LISTING

(1) General Information:

(i) APPLICANT: QUEEN, Cary L.

CO, Man Sung

SCHNEIDER, William P.

LANDOLFI, Nicholas F.

COELINGH, Kathleen L.

SELICK, Harold E.

(ii) TITLE OF INVENTION: IMPROVED HUMANIZED IMMUNOGLOBULINS

(iii) NUMBER OF SEQUENCES: 113

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Townsend and Townsend Khourie and Crew

(B) STREET: 379 Lytton Avenue

(C) CITY: Palo Alto

(D) STATE: California

(E) COUNTRY: US

(F) ZIP: 94301

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk

(B) COMPUTER: IBM PC compatible

(C) OPERATING SYSTEM: PC-DOS/MS-DOS

(D) SOFTWARE: PatentIn Release #1.0, Version #1.25

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 08/484,537

(B) FILING DATE:

(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US/07/634,278

(B) FILING DATE: 19-DEC-1990

(A) APPLICATION NUMBER: US 07/590,274

(B) FILING DATE: 28-SEP-1990

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 07/310,252

(B) FILING DATE: 13-FEB-1989

(vii) PRIOR APPLICATION DATA:

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PATENT APPLICATION US/08/484,537DATE: 10/01/98
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47 (A) APPLICATION NUMBER: US 07/290,975
48 (B) FILING DATE: 28-DEC-1988
49
50 (viii) ATTORNEY/AGENT INFORMATION:
51 (A) NAME: Smith, William M
52 (B) REGISTRATION NUMBER: 30,223
53 (C) REFERENCE/DOCKET NUMBER: 11823-002600
54
55 (ix) TELECOMMUNICATION INFORMATION:
56 (A) TELEPHONE: (415) 326-2400
57 (B) TELEFAX: (415) 326-2422
58
59 (2) INFORMATION FOR SEQ ID NO:1:
60
61 (i) SEQUENCE CHARACTERISTICS:
62 (A) LENGTH: 106 amino acids
63 (B) TYPE: amino acid
64 (C) STRANDEDNESS: single
65 (D) TOPOLOGY: unknown
66
67 (ii) MOLECULE TYPE: protein
68
69 (iii) HYPOTHETICAL: NO
70
71
72 (ix) FEATURE:
73 (A) NAME/KEY: Protein
74 (B) LOCATION: 1..106
75 (D) OTHER INFORMATION: /note= "Variable region of the mouse
76 anti-Tac antibody light chain."
77
78
79 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
80
81 Gln Ile Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly
82 1 5 10 15
83
84 Glu Lys Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Ile Ser Tyr Met
85 20 25 30
86
87 His Trp Phe Gln Gln Lys Pro Gly Thr Ser Pro Lys Leu Trp Ile Tyr
88 35 40 45
89
90 Thr Thr Ser Asn Leu Ala Ser Gly Val Pro Ala Arg Phe Ser Gly Ser
91 50 55 60
92
93 Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Arg Met Glu Ala Glu
94 65 70 75 80
95
96 Asp Ala Ala Thr Tyr Tyr Cys His Gln Arg Ser Thr Tyr Pro Leu Thr
97 85 90 95
98
99 Phe Gly Ser Gly Thr Lys Leu Glu Leu Lys

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100 100 105

101

102 (2) INFORMATION FOR SEQ ID NO:2:

103

104 (i) SEQUENCE CHARACTERISTICS:

105 (A) LENGTH: 107 amino acids

106 (B) TYPE: amino acid

107 (C) STRANDEDNESS: single

108 (D) TOPOLOGY: unknown

109

110 (ii) MOLECULE TYPE: protein

111

112 (iii) HYPOTHETICAL: NO

113

114

115 (ix) FEATURE:

116 (A) NAME/KEY: Protein

117 (B) LOCATION: 1..107

118 (D) OTHER INFORMATION: /note= "Variable region of the human

119 Eu antibody light chain."

120

121

122 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

123

124 Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly

125 1 5 10 15

126

127 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Asn Thr Trp

128 20 25 30

129

130 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Met

131 35 40 45

132

133 Tyr Lys Ala Ser Ser Leu Glu Ser Gly Val Pro Ser Arg Phe Ile Gly

134 50 55 60

135

136 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro

137 65 70 75 80

138

139 Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Asp Ser Lys

140 85 90 95

141

142 Met Phe Gly Gln Gly Thr Lys Val Glu Val Lys

143 100 105

144

145 (2) INFORMATION FOR SEQ ID NO:3:

146

147 (i) SEQUENCE CHARACTERISTICS:

148 (A) LENGTH: 116 amino acids

149 (B) TYPE: amino acid

150 (C) STRANDEDNESS: single

151 (D) TOPOLOGY: unknown

152

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153 (ii) MOLECULE TYPE: protein
154
155 (iii) HYPOTHETICAL: NO
156
157
158 (ix) FEATURE:
159 (A) NAME/KEY: Protein
160 (B) LOCATION: 1..116
161 (D) OTHER INFORMATION: /note= "Variable region of the mouse
162 anti-Tac antibody heavy chain."
163
164
165 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
166
167 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Ala Lys Pro Gly Ala
168 1 5 10 15
169
170 Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
171 20 25 30
172
173 Arg Met His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
174 35 40 45
175
176 Gly Tyr Ile Asn Pro Ser Thr Gly Tyr Thr Glu Tyr Asn Gln Lys Phe
177 50 55 60
178
179 Lys Asp Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
180 65 70 75 80
181
182 Met Gln Leu Ser Ser Leu Thr Phe Glu Asp Ser Ala Val Tyr Tyr Cys
183 85 90 95
184
185 Ala Arg Gly Gly Gly Val Phe Asp Tyr Trp Gly Gln Gly Thr Thr Leu
186 100 105 110
187
188 Thr Val Ser Ser
189 115
190
191 (2) INFORMATION FOR SEQ ID NO:4:
192
193 (i) SEQUENCE CHARACTERISTICS:
194 (A) LENGTH: 117 amino acids
195 (B) TYPE: amino acid
196 (C) STRANDEDNESS: single
197 (D) TOPOLOGY: unknown
198
199 (ii) MOLECULE TYPE: protein
200
201 (iii) HYPOTHETICAL: NO
202
203
204 (ix) FEATURE:
205 (A) NAME/KEY: Protein

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206 (B) LOCATION: 1..117
207 (D) OTHER INFORMATION: /note= "Variable region of the human
208 Eu antibody heavy chain."
209
210
211 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
212
213 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
214 1 5 10 15
215
216 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Arg Ser
217 20 25 30
218
219 Ala Ile Ile Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
220 35 40 45
221
222 Gly Gly Ile Val Pro Met Phe Gly Pro Pro Asn Tyr Ala Gln Lys Phe
223 50 55 60
224
225 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Asn Thr Ala Tyr
226 65 70 75 80
227
228 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Phe Tyr Phe Cys
229 85 90 95
230
231 Ala Gly Gly Tyr Gly Ile Tyr Ser Pro Glu Glu Tyr Asn Gly Gly Leu
232 100 105 110
233
234 Val Thr Val Ser Ser
235 115
236
237 (2) INFORMATION FOR SEQ ID NO:5:
238
239 (i) SEQUENCE CHARACTERISTICS:
240 (A) LENGTH: 116 amino acids
241 (B) TYPE: amino acid
242 (C) STRANDEDNESS: single
243 (D) TOPOLOGY: unknown
244
245 (ii) MOLECULE TYPE: protein
246
247 (iii) HYPOTHETICAL: NO
248
249
250 (ix) FEATURE:
251 (A) NAME/KEY: Protein
252 (B) LOCATION: 1..116
253 (D) OTHER INFORMATION: /note= "Variable region of the PDL
254 humanized anti-Tac antibody heavy chain."
255
256
257 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
258

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SEQUENCE VERIFICATION REPORT
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Original Text